


AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT				1. CONTRACT ID CODE See Block #2		PAGE OF PAGES 1 of 5		
2. AMENDMENT/MODIFICATION NO. N66001-02-R-5017 0004			3. EFFECTIVE DATE 21 Jun 2002		4. REQUISITION/PURCHASE REQ.NO.		5. PROJECT NO. (If applicable)	
6. ISSUED BY 2211 CODE SPAWAR SYSTEMS CENTER, SAN DIEGO 53560 HULL ST., BLDG A33, RM 1602W SAN DIEGO CA 92152-5001 CODE 2211 Oliver Wong, (619) 553-4507 owong@spawar.navy.mil			N66001		7. ADMINISTERED BY (If other than Item 6) CODE			
8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code)					(X) X			9A. AMENDMENT OF SOLICITATION NO. N66001-02-R-5017
								9B. DATED (SEE ITEM 11)
								10A. MODIFICATION OF CONTRACT/ORDER NO.
								10B. DATED (SEE ITEM 13) 10 May 2002
CODE		FACILITY CODE						
11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS								
<input checked="" type="checkbox"/> The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers <input checked="" type="checkbox"/> is extended, <input type="checkbox"/> is not extended. Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods: (a) By completing Items 8 and 15, and returning 1 copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.								
12. ACCOUNTING AND APPROPRIATION DATA (If required)								
13. THIS ITEM APPLIES ONLY TO MODIFICATION OF CONTRACTS/ORDERS, IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.								
(X) <input type="checkbox"/> A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: () THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. ITEM 10A. <input type="checkbox"/> B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b). <input type="checkbox"/> C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF: <input type="checkbox"/> D. OTHER (Specify type of modification and authority)								
E. IMPORTANT: Contractor <input type="checkbox"/> is not, <input checked="" type="checkbox"/> is required to sign this document and return 1 copies to the issuing office.								
14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.) The purpose of Amendment 0004 to N66001-02-R-5017 is to provide Answers to Questions and make Administrative Changes to the solicitation document. All other solicitation provisions remain unchanged.								
Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.								
15A. NAME AND TITLE OF SIGNER (Type or print) 15B.				16A. NAME AND TITLE OF SIGNER (Type or print) JAMES E. SMITH JR.				
15B. CONTRACTOR/OFFEROR		15C. DATE SIGNED		16B. UNITED STATES OF AMERICA		16C. DATE SIGNED		
(Signature of person authorized to sign)				BY  (Signature of Contracting Officer)		6-21-02		

AMENDMENT 0004

FOR Questions and Answers (Q&A's) and administrative changes
Regarding SSC-SD RFP N66001-02-R-5017, entitled "Secure Digital Communication Control System."

1. Q&A's.

1. Is it a requirement to provide sufficient interface ports within the SDCCS to connect to up to 150 cryptos or only 36 cryptos (as stated in Amendment 1)?

Government Response: There is no Performance Specification requirement to provide sufficient interface ports within the SDCCS to connect to up to 150 cryptos. Amendment 1 breaks down the quantities of crypto devices that will be provided in Block 8 of the Q&A's #1.

2. If there are only 36 cryptos in the system, (as stated in amendment 1), is it true that the system is limited to 36 secure radio channels at any one point in time?

Government Response: Yes

3. Is all of the space in the console in dwg 91-10826 supplied with amendment 1 available for installation of the operator position equipment (i.e. red speaker, black speaker, jack panel, touch screen and processor.)

Government Response: Yes

3. Is the drawing 91-10826 showing the Type II operator position racks?

Government Response: Yes

5. It is not possible to determine what space in the MTRACS radar display consoles is available to mount any of the operator position equipment. The available space is essential to accurately size and cost the equipment to be offered under CLIN 0001. Please confirm that the equipment is to be mounted in the MTRACS console and if so provide details of what space is available to the left and right of the monitor for mounting speakers and whether space is available for a touchscreen panel to be mounted on an arm on the bullnose of the console.

Government Response: The equipment is to be mounted in the MTRACS console. The drawing provided in Amendment 0001 depicts the space available for touchscreen panels to be mounted in two places approximately 8" x 10" x 24". The speakers are to be mounted behind the speaker grills as shown above the MTRACS monitor.

6. Re para 3.2.7.2 of the specification. Is this the temperature limitation internal to the radar consoles where the Type I operator positions are to be located?

Government Response: No, The paragraph 3.2.7.2 is the interior environmental conditions of the facility.

7. In Amendment 1 it was stated that there was no requirement to provide a wideband/narrowband select function. However, the change to paragraph 3.2.2.5.1 in Amendment 3 does not remove the wideband/narrowband select control signals. Is this still a requirement or will the specification be modified?

Government Response: pp 3.2.2.5.1 is modified to read:

From:

3.2.2.5.1 RADIOS. The SDCCS shall interface with Ground Air Ground (GAG) remote radios. It shall contain necessary circuitry to process radio audio and control (PTT; narrowband/wideband select) signals. This includes signal amplification, impedance matching, keying, interlock, status and protection devices for both main and standby channels. Specific radios shall include but are not limited to the AN/GRR-24 UHF receivers, AN/GRT-22 UHF transmitter, AN/GRC-171 (V) 5 UHF transceiver, AN/VRC-90 VHF FM transceiver, AN/GRC-211 AM transceiver, AN/FRT-96, URC-200, URT 42, RF 590, and RF1130. All incoming audio on that radio channel shall be directed to every position, which has selected that channel. Whenever a voice signal is present on a channel, a visible indication shall be provided to each position, which has been configured to receive that channel, regardless of the physical location of the position. The interface shall be required to provide the following connections.

- a. One pair for the signal to the main transmitter
- b. One pair for the signal from the main receiver
- One pair for keying for the main transmitter (dry contact, 100 mA maximum)

To:

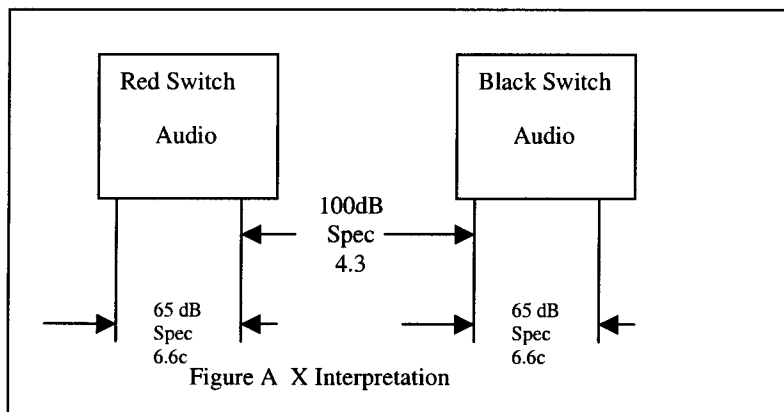
3.2.2.5.1 RADIOS. The SDCCS shall interface with Ground Air Ground (GAG) remote radios. It shall contain necessary circuitry to process radio audio (narrowband and wideband) and push to talk (PTT). This includes signal amplification, impedance matching, keying, interlock, status and protection devices. Specific radios shall include but are not limited to the AN/GRR-24 UHF receivers, AN/GRT-22 UHF transmitter, AN/GRC-171 (V) 5 UHF transceiver, AN/VRC-90 VHF FM transceiver, AN/GRC-211 AM transceiver, AN/FRT-96, URC-200, URT 42, RF 590, and RF1130. All incoming audio on that radio channel shall be directed to every position, which has selected that channel. Whenever a voice signal is present on a channel, a visible indication shall be provided to each position, which has been configured to receive that channel, regardless of the physical location of the position. The interface shall be required to provide the following connections.

- c. One pair for the signal to the main transmitter
- d. One pair for the signal from the main receiver
- One pair for keying for the main transmitter (dry contact, 100 mA maximum)

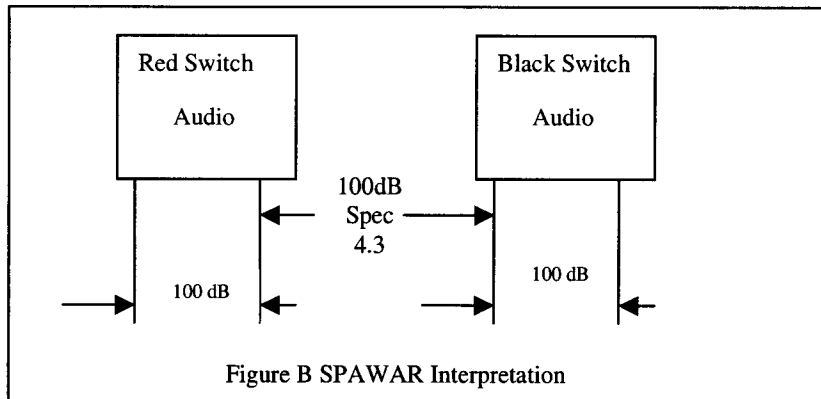
2. Q&A's.

There appears to be a conflict between our interpretation of NSTISSAM/2-95 and the interpretation taken by SPAWAR San Diego. The issue is the Red-to-Red port isolation of 100dB Vs: 65dB.

Figure A below represents X interpretation of the NSTISSAM/2-95 document. With regard to: Specification 4.3b Red/Black Electrical Separation and Specification ...between Red and Black circuits, and Specification 6.6c ..Multiple Circuit Equipment Crosstalk levels between channels within an equipment



In the figure B below is what we believe the SPAWAR position to be.



SPAWAR states that the NSTISSAM/2-95 paragraph 6.6c relates only to SCI information. However, the specification states that "...Red unencrypted signal lines may be used to process both SCI and Non-SCI subject to the following conditions...."

The SDCCS specification makes these apparently conflicting statements:

Paragraph	Excerpt
3.2.3.1.16.7	..crosstalk power between any paths in either the red or black section of the SDCCS shall be attenuated greater than 100dB....
3.2.4.6	...classified information shall conform to NSTISSAM TEMPEST 2/95A ...
3.2.4.6.6g	..Red switching devices shall provide at least 100dB between all channels.

If the classified specifications have an impact on the apparent inconsistency we request a visit to view the classified specification.

Government Response: There is no conflict between NSTISSAM/2-95 and the SDCCS Performance Specification. Section 4 of NSTISSAM TEMPEST /2-95 states the requirements for Red Black Electrical Separation. The SDCCS will be a switching device used to interface between Red and Black circuits and equipment. The SDCCS will be located in a non-SCI area. The electrical separation requirements for Red and Black switches are stated in paragraph 4.3b of NSTISSAM TEMPEST /2-95 and is as follows:

- "Electrical separation ensures that every signal conductor from a RED device is routed only to another RED device, or is encrypted before connection with a BLACK device. Electrical separation addresses signal distribution, power distribution, and grounding. Switches and/or other devices used to interface between RED and BLACK circuits/equipment should exhibit the following port-to-port isolation characteristics, as applicable:
 - 100 dB over the baseband audio frequency range between 0.3 and 15kHz
 - 80 dB over the baseband video frequency range up to 5 MHz
 - 60 dB over the frequency range from one times (Rd) to ten times the basic data rate (10Rd) of the digital signal(s) processed.

The Crosstalk and Isolation requirement for the SDCCS is stated in paragraph 3.2.3.16.7 of the Performance Specification. It reads, "Crosstalk power between any paths in either the Red or Black section of the SDCCS shall be attenuated greater than 100 dB below operating

level at all frequencies and under all conditions of network loading. Crosstalk power between the red section and black section of the SDCCS shall be attenuated greater than 100 dB below operation level at all frequencies and under all conditions of network loading....Crosstalk power between any red and black radio, intercom and telephone paths at the operating stations shall be attenuated greater than 100 dB below normal operating level at all frequencies and under all conditions of channel selection.”

The above requirements, from the Performance Specification, are in direct agreement with the requirements for RED/BLACK electrical separation as stated in NSTISSAM TEMPEST/2-95 paragraph 4.3b.

The 65 dB requirement is for RED SCI and RED Non-SCI electrical separation within a Sensitive Compartmented Information facility. The first sentence in the General section of Section 6 reads, “This appendix sets forth criteria to permit RED sensitive compartmented information (SCI) and RED non-SCI to be processed through components of a single RED distribution system.” The SDCCS application is not for SCI. The SDCCS, as specified in the performance specification, is a RED/BLACK GENSER distribution system. The SDCCS performance specification does not reference any requirement for the distribution of RED SCI data. It references the distribution of RED/BLACK data, therefore Appendix 6 and its subparagraphs do not apply to the SDCCS.

A diagram is posted separately (See ‘TEMPESTSecVce.pdf’).

ADMINISTRATIVE CHANGES

1. RFP’s Submission Due Date

The due date of this RFP 02-5017 is changed from 6/28/2002 to 7/2/2002 and at 3:00 p.m. Pacific.

-End